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Estes® Industries
1295 H Street
Penrose, CO 81240
Printed in CHINA

ChromeDomes™

FLYING MODEL ROCKET KIT INSTRUCTIONS
KEEP FOR FUTURE REFERENCE



SILVER SERIES
EST 2180

GOLD SERIES
EST 2181

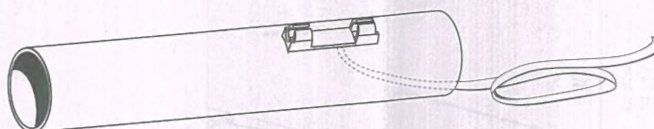
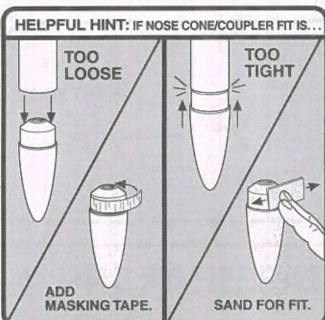
ASSEMBLY TIP

Read all instructions before beginning work on your model. Make sure you have all parts and supplies.

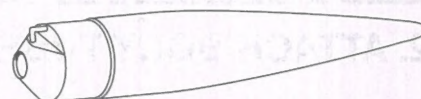
TEST-FIT ALL PARTS TOGETHER BEFORE APPLYING ANY GLUE. If any parts don't fit properly, sand as required for precision assembly.

PARTS

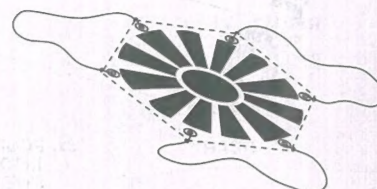
Locate the parts shown below and lay them out on the table in front of you.
DO NOT USE THIS DRAWING TO ASSEMBLE YOUR ROCKET.



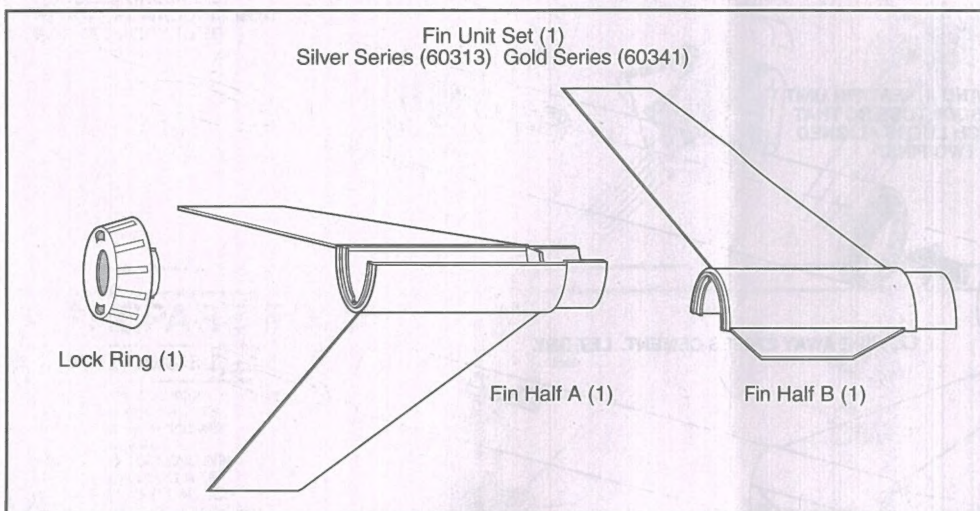
Body Tube Assembly (1)
Silver Series (60370)
Gold Series (60371)



Nose Cone PNC-56A (1)
Silver Series (60312)
Gold Series (60340)



Assembled 12" (30 cm)
Parachute (1) (35801)



SUPPLIES

In addition to the parts included in the kit you will also need:



RULER



MODELING
KNIFE



PLASTIC
CEMENT



MASKING
TAPE



FINE SAND
PAPER
(#400-600 GRIT)

Rocket Label (1)
Silver Series (60314)
Gold Series (60342)

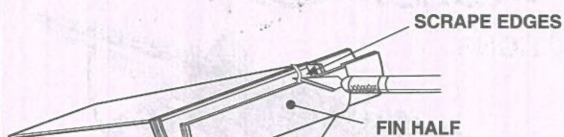
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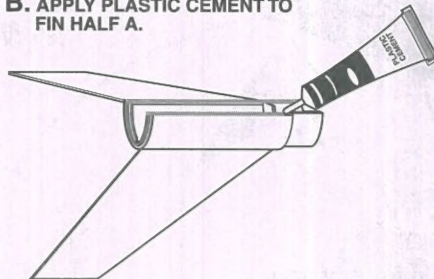


1. ASSEMBLE FIN UNIT

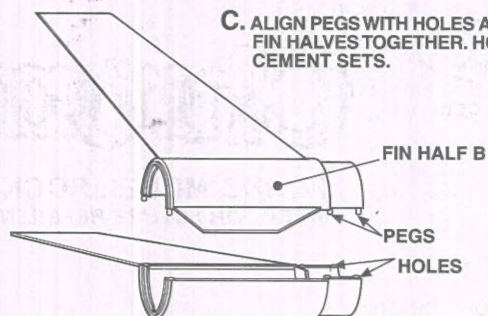
A. SCRAPE CHROME FLASH FROM EDGES OF FIN HALVES A AND B.



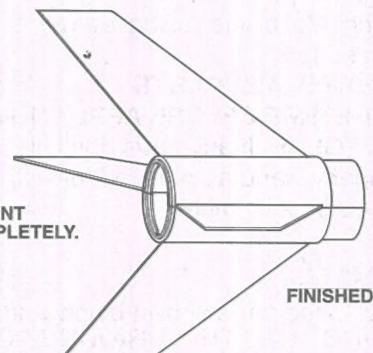
B. APPLY PLASTIC CEMENT TO FIN HALF A.



C. ALIGN PEGS WITH HOLES AND PRESS FIN HALVES TOGETHER. HOLD UNTIL CEMENT SETS.

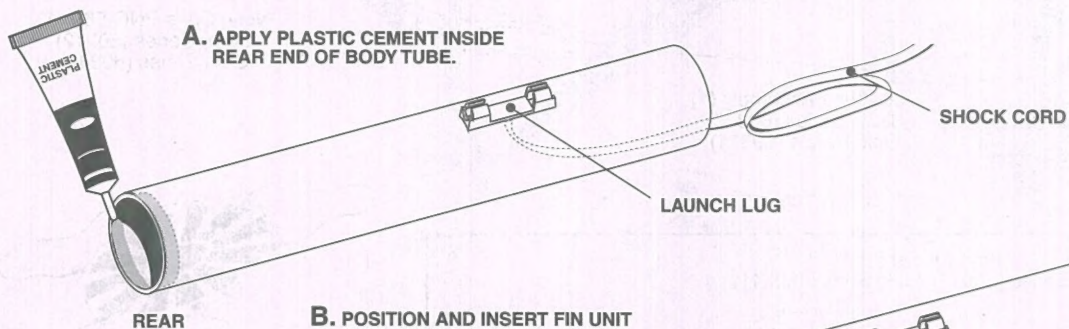


D. LET CEMENT DRY COMPLETELY.

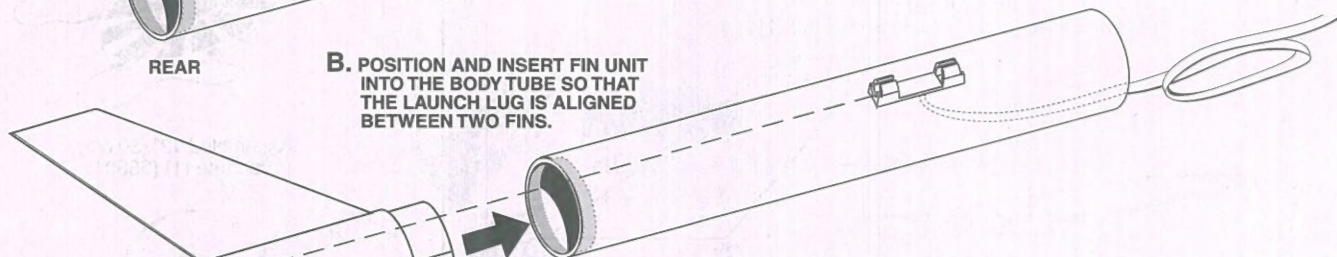


2. ATTACH BODY TUBE

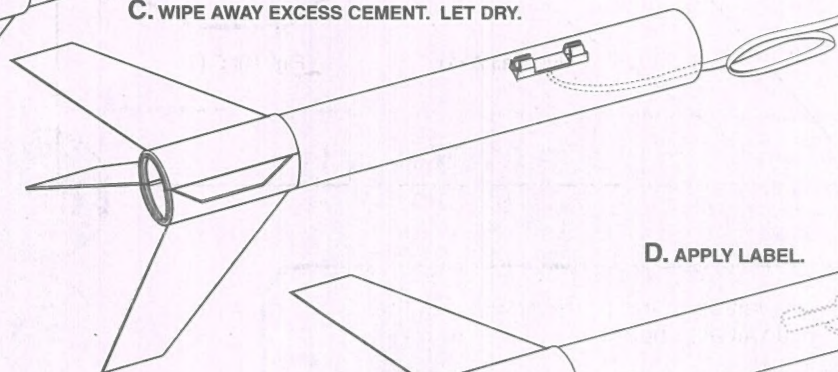
A. APPLY PLASTIC CEMENT INSIDE REAR END OF BODY TUBE.



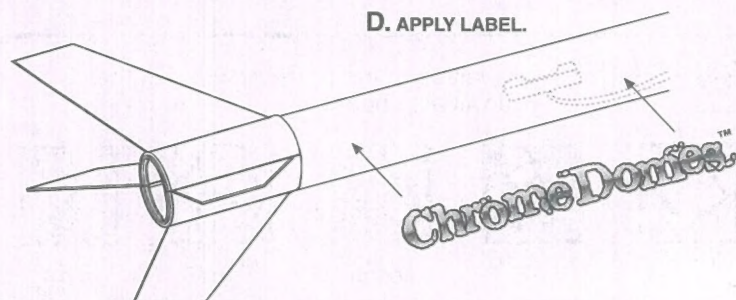
B. POSITION AND INSERT FIN UNIT INTO THE BODY TUBE SO THAT THE LAUNCH LUG IS ALIGNED BETWEEN TWO FINS.



C. WIPE AWAY EXCESS CEMENT. LET DRY.

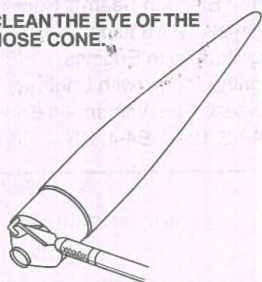


D. APPLY LABEL.

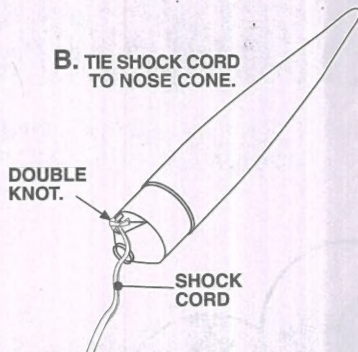


3. ATTACH PARACHUTE AND NOSE CONE

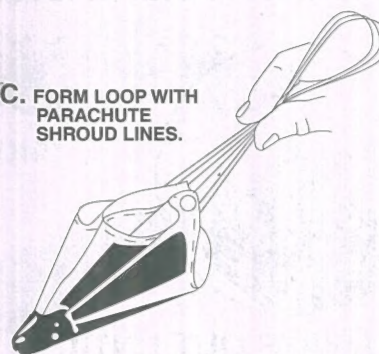
A. CLEAN THE EYE OF THE NOSE CONE.



B. TIE SHOCK CORD TO NOSE CONE.

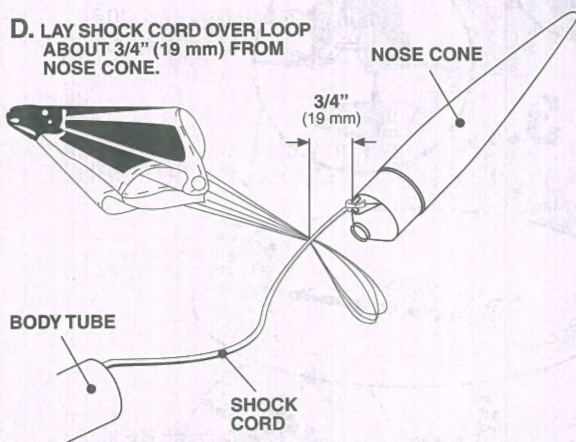


C. FORM LOOP WITH PARACHUTE SHROUD LINES.

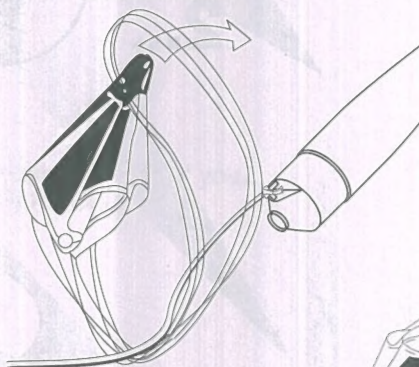


CAUTION:
DO NOT CUT EYE OF NOSE CONE OFF!

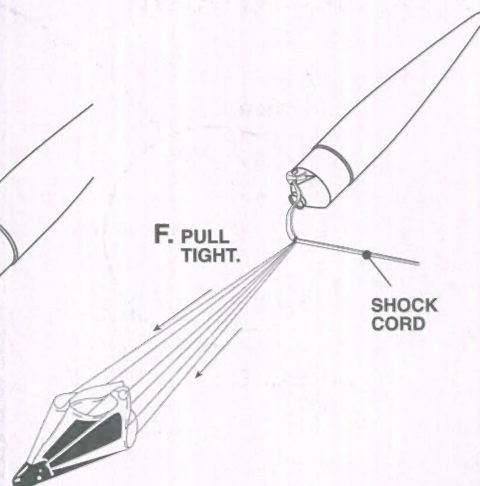
D. LAY SHOCK CORD OVER LOOP ABOUT 3/4" (19 mm) FROM NOSE CONE.



E. PASS PARACHUTE THROUGH LOOP.

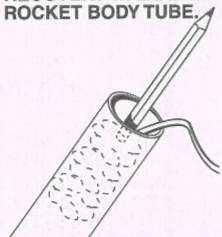


F. PULL TIGHT.



4. PREPARE PARACHUTE FOR FLIGHT

A. INSERT FOUR SQUARES OF LOOSELY CRUMPLED RECOVERY WADDING INTO ROCKET BODY TUBE.



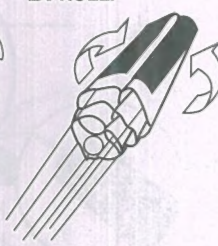
B. SPIKE PARACHUTE.



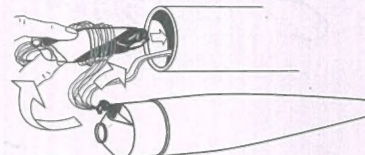
C. FOLD.



D. ROLL.



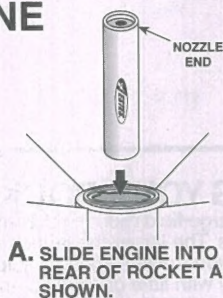
E. WRAP LINES LOOSELY. INSERT 'CHUTE, SHOCK CORD AND NOSE CONE INTO BODY TUBE.



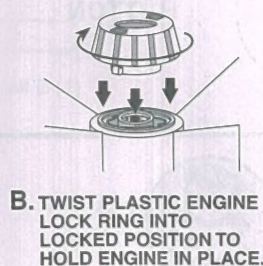
5. PREPARE ENGINE

WARNING: FLAMMABLE

To avoid serious injury, read instructions & NAR Safety Code included with engines.
PREPARE YOUR ENGINE ONLY WHEN YOU ARE OUTSIDE AT THE LAUNCH SITE PREPARING TO LAUNCH!
If you do not use your prepared engine, remove the igniter before storing your engine.



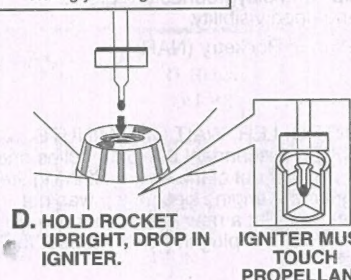
A. SLIDE ENGINE INTO REAR OF ROCKET AS SHOWN.



B. TWIST PLASTIC ENGINE LOCK RING INTO LOCKED POSITION TO HOLD ENGINE IN PLACE.



C. SEPARATE IGNITER AND IGNITER PLUG.



D. HOLD ROCKET UPRIGHT, DROP IN IGNITER.



E. INSERT IGNITER PLUG.



F. FIRMLY PUSH ALL THE WAY IN.



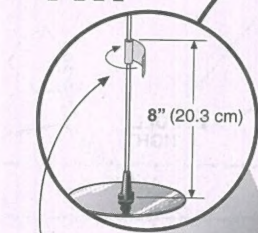
G. BEND IGNITER WIRES AS SHOWN.

COUNTDOWN AND LAUNCH



KEY ALWAYS OUT UNTIL FINAL COUNTDOWN!

1...

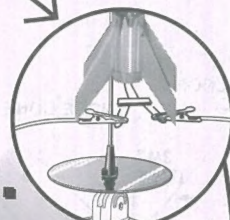


MASKING TAPE

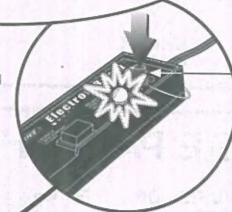
2...



3...



4...



KEY

INSERT KEY. PUSH DOWN AND HOLD.

5...

4... 3... 2... 1...



HOLD KEY DOWN AND PRESS BUTTON UNTIL LIFT-OFF!

LAUNCH BUTTON

PRECAUTIONS

NAR Safety Code



NO DRY GRASS OR WEEDS

FLYING YOUR ROCKET

Choose a large field (500 ft. [152 m] square) free of dry weeds and brown grass. The larger the launch area, the better your chance of recovering your rocket. Football fields and playgrounds are great. Launch only with little or no wind and good visibility.

Always follow the National Association of Rocketry (NAR) SAFETY CODE.

MISFIRES

TAKE THE KEY OUT OF THE CONTROLLER. WAIT ONE MINUTE BEFORE GOING NEAR THE ROCKET! Disconnect the igniter clips and remove the engine. Take the plug and igniter out of the engine. If the igniter has burned, it worked but did not ignite the engine because it was not touching the propellant inside the engine. Put a new igniter all the way inside the engine without bending it. Push the plug in place. Repeat the steps under Countdown and Launch.

LAUNCH SUPPLIES

(Sold Separately)

- Estes® Porta-Pad® II Launch Pad and Electron Beam® Controller
- Recovery Wadding
- Igniters (with Engines)
- Igniter Plugs (with Engines)
- Estes® Recommended Engines: A8-3, B4-2, B4-4, B6-4, C6-5